Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-12-13-29** **Date: 19-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	-
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	-
4	Standard Consistency (%)	0.28	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-12-13-29** **Date: 19-07-19**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Date: 18-07-19

Lab ID	:	CP-2019-12-13-29
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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HIGHWAY & BUILDING MATERIALS

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2019-12-13-29
		Date: 29-07-19
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	26-07-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	198	202	16118	32.989	2046.7	2064.4	Not less than 1800Kg/m^3
2	398	201	200	16000	33.175	2073.5		
3	400	203	199	16159	33.497	2073.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-12-13-29** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	20-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-13-29** **Date: 30/07/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-19
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	23/07/2019	30/07/2019	151.53 X 149.48 X 149.42	22651	8.616	427.6	18.9	18.4
2	Column Concrete	M20	23/07/2019	30/07/2019	150.67 X 151.34 X 150.52	22802	8.006	414.4	18.2	
3	Column Concrete	M20	23/07/2019	30/07/2019	151.55 X 151.61 X 151.25	22978	8.305	420.3	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/07/2019

Lab ID	:	CP-2019-12-13-29
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-19
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/07/2019

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	23/07/2019	30/07/2019	150.70 X 150.98 X 150.42	22752	8.616	420.7	18.5	18.6
2	Column Concrete	M20	23/07/2019	30/07/2019	151.53 X 149.28 X 150.76	22620	8.006	412.7	18.2	
3	Column Concrete	M20	23/07/2019	30/07/2019	151.59 X 150.08 X 150.69	22751	8.305	432.0	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/08/2019

Lab ID	:	CP-2019-12-13-29
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-19
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Column Concrete	M20	23/07/2019	20/08/2019	151.28 X 150.73 X 150.68	22803	8.350	542.3	23.8	23.4
2	Column Concrete	M20	23/07/2019	20/08/2019	151.92 X 150.97 X 151.21	22935	8.216	520.1	22.7	
3	Column Concrete	M20	23/07/2019	20/08/2019	150.55 X 151.72 X 150.24	22841	8.415	540.2	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-13-29

Date: 27/08/2019

Customer : Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04

Agency : Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-01/W.O/66/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-08-19

Customer ID : Pedastal Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pedastal Concrete	M20	20/08/2019	27/08/2019	151.13 X 151.81 X 149.67	22942	8.616	420.8	18.3	18.7
2	Pedastal Concrete	M20	20/08/2019	27/08/2019	149.47 X 151.78 X 149.28	22688	8.006	428.8	18.9	
3	Pedastal Concrete	M20	20/08/2019	27/08/2019	150.09 X 151.87 X 151.40	22795	8.305	432.3	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2019-12-13-29
		Date: 17/09/2019
tomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ddress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-08-19
Customer ID	:	Pedastal Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/09/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pedastal Concrete	M20	20/08/2019	17/09/2019	151.53 X 149.45 X 149.33	22647	8.350	531.1	23.5	23.3
2	Pedastal Concrete	M20	20/08/2019	17/09/2019	149.62 X 150.04 X 150.57	22449	8.216	507.9	22.6	
3	Pedastal Concrete	M20	20/08/2019	17/09/2019	149.25 X 150.49 X 149.56	22461	8.415	533.2	23.7	

Note:
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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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R RUDRAPRASAD
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-13-29 Date: 08/08/2019

Customer : Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04

Agency : Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-01/W.O/66/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-08-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/08/2019

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	01/08/2019	08/08/2019	151.54 X 149.42 X 149.39	22644	8.616	419.9	18.5	18.5
2	Lintel Concrete	M20	01/08/2019	08/08/2019	150.46 X 149.05 X 151.68	22427	8.006	413.9	18.5	
3	Lintel Concrete	M20	01/08/2019	08/08/2019	149.59 X 151.90 X 149.58	22724	8.305	423.3	18.6	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

.D	:	CP-2019-12-13-29 **Date: 29/08/2019**
tomer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ldress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-19
Customer ID	:	Lintel Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	01/08/2019	29/08/2019	149.20 X 151.20 X 149.34	22560	8.350	521.8	23.1	23.1
2	Lintel Concrete	M20	01/08/2019	29/08/2019	149.88 X 149.66 X 149.30	22432	8.216	504.6	22.5	
3	Lintel Concrete	M20	01/08/2019	29/08/2019	149.85 X 151.24 X 150.71	22663	8.415	538.2	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-12-13-29 **Date: 08/08/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-19
Customer ID	:	Chajja Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	01/08/2019	08/08/2019	151.56 X 151.47 X 150.05	22956	8.616	419 6	18.3	18.4
2	Chajja Concrete	M20	01/08/2019	08/08/2019	150.69 X 149.49 X 150.47	22527	8.006	426.0	18.9	
3	Chajja Concrete	M20	01/08/2019	08/08/2019	150.64 X 149.26 X 149.32	22485	8.305	408.2	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-13-29** **Date: 26/08/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-19
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	19/08/2019	26/08/2019	151.72 X 151.76 X 150.08	23025	8.616	431.9	18.8	18.5
2	Roof Concrete	M20	19/08/2019	26/08/2019	151.54 X 151.39 X 149.02	22941	8.006	420.4	18.3	
3	Roof Concrete	M20	19/08/2019	26/08/2019	149.43 X 150.28 X 149.16	22455	8.305	415.7	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-12-13-29 **Date: 16/09/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-19
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	19/08/2019	16/09/2019	149.41 X 150.45 X 151.23	22479	8.350	522.6	23.2	23.2
2	Roof Concrete	M20	19/08/2019	16/09/2019	151.63 X 151.17 X 151.76	22922	8.216	523.3	22.8	
3	Roof Concrete	M20	19/08/2019	16/09/2019	150.89 X 150.58 X 151.42	22721	8.415	531.1	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-13-29 Date: 26/08/2019

Customer : Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04

Agency : Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-01/W.O/66/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength ($N/m.n^2$)
1	Roof Concrete	M20	19/08/2019	26/08/2019	150.20 X 151.36 X 149.46	22735	8.616	425.3	18.7	18.7
2	Roof Concrete	M20	19/08/2019	26/08/2019	150.71 X 150.73 X 150.30	22717	8.006	426.5	18.8	
3	Roof Concrete	M20	19/08/2019	26/08/2019	151.54 X 149.20 X 149.58	22611	8.305	423.7	18.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-13-29** **Date: 16/09/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-19
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/09/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	19/08/2019	16/09/2019	150.59 X 151.16 X 150.95	22762	8.350	538.0	23.6	23.1
2	Roof Concrete	M20	19/08/2019	16/09/2019	149.46 X 151.19 X 150.55	22598	8.216	503.3	22.3	
3	Roof Concrete	M20	19/08/2019	16/09/2019	150.41 X 151.37 X 149.38	22768	8.415	533.2	23.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-12-13-29 **Date: 26/08/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-19
Customer ID	:	Staircase Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Staircase Concrete	M20	19/08/2019	26/08/2019	149.35 X 149.60 X 151.48	22342	8.616	419.7	18.8	18.7
2	Staircase Concrete	M20	19/08/2019	26/08/2019	150.39 X 150.88 X 150.36	22692	8.006	424.1	18.7	
3	Staircase Concrete	M20	19/08/2019	26/08/2019	150.81 X 149.97 X 149.92	22616	8.305	422.7	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-13-29

Date: 26/08/2019

Customer : Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04

Agency : Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-01/W.O/66/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-19

Customer ID : Staircase Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Staircase Concrete	M20	19/08/2019	26/08/2019	149.51 X 151.84 X 150.71	22702	8.616	420.5	18.5	18.5
2	Staircase Concrete	M20	19/08/2019	26/08/2019	150.19 X 150.99 X 151.03	22677	8.006	416.2	18.4	
3	Staircase Concrete	M20	19/08/2019	26/08/2019	149.68 X 149.42 X 150.91	22365	8.305	419.4	18.8	

Note:
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Samples will be disposed after 90 days from the date of issue of test certificate

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-13-29 Date: 16/09/2019

Customer : Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04

Agency : Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-01/W.O/66/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-19

Customer ID : Staircase Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/09/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Staircase Concrete	M20	19/08/2019	16/09/2019	151.27 X 150.45 X 151.39	22759	8.350	540.3	23.7	23.3
2	Staircase Concrete	M20	19/08/2019	16/09/2019	149.81 X 151.10 X 149.51	22636	8.216	509.7	22.5	
3	Staircase Concrete	M20	19/08/2019	16/09/2019	150.17 X 149.19 X 150.40	22404	8.415	532.9	23.8	

Note:
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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	CP-2019-12-13-29 **Date: 26-07-19**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04.
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-07-19
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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Format No: CP/TF/2017

TEST REPORT FOR MORTAR SAND

Lab ID	:	**CP-2019-12-13-29** **Date: 26-07-19**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Someshwaranagara near Eshwara temple in Ward No:04
Agency	:	Sri. A.Kumarreddy, No:44, Kaverinagara, A, Block , Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-07-19
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-12-13-29** **Date: 26-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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